

# Ramtin Sheikhhassani

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Email sheikhha@usc.edu

EDUCATION **University of Southern California**, Los Angeles, California USA

Ph.D. , Mechanical Engineering, (2015)

- Dissertation Topic: “ Scattering of a Plane Harmonic SH-Wave and Dynamic Stress Concentration for Multiple Multilayered Inclusions Embedded in an Elastic Half-Space”
- Advisor: M. Dravinski & S. Sadhal

M.S., Mechanical Engineering, (2010)

**Iran University of Science and Technology**, Iran

B.S., Mechanical engineering, (2008)

HONORS AND AWARDS

National Interest Waiver recipient, 2017, Granted to individuals with exceptional ability whose employment in the United States would greatly benefit the nation

Outstanding Graduate, Association of Professors and Scholars of Iranian Heritage, 2015

Teaching Assistantship Award with waived tuition fee, 2010

International Student Academic Achievement Award, University of Southern California, 2010

Graduated with distinction and recognized as the top undergraduate student , 2008

Iranian National Mathematical Olympiad, 2007

Studied in a high school dedicated to exceptional talented students, 2000-2004, Iran

ACADEMIC EXPERIENCE

**University of Southern California**, Los Angeles, CA, USA

*Lecturer*

**2017 - Current**

Teaching graduate and undergraduate courses in Mechanical Eng. and Mathematics

**California State University at Northridge**, Los Angeles, CA, USA

*Lecturer*

**2015 - 2016**

Teaching undergraduate courses

**University of Southern California**, Los Angeles, CA, USA

*Graduate Student*

**2009 - 2015**

Includes current Ph.D. research, Ph.D. and Masters level coursework and research/consulting projects.

*Teaching Assistant*

**2010 - 2015**

Duties at various times have included office hours and leading weekly computer lab exercises.

*Research Assistant*

**2009 - 2010**

Rapid prototyping lab

RESEARCH INTERESTS

Computational Mechanics, Boundary Element Method, Elasticity, Wave propagation, Finite Element Method, Biomechanics.

JOURNAL PUBLICATIONS

**Sheikhhassani, R.**, Dravinski, M. (2016) Dynamic stress concentration for multiple multilayered inclusions embedded in an elastic half-space and subjected to a plane harmonic SH-wave. Wave motion, 62, 20-40.

**Sheikhhassani, R.**, Anvari, P., Taei S., Sheikhhassani, Y. (2015) Potential use of polycarbonate-urethane matrix reinforced with polyethylene fibers for shock-absorbing dental implants. Journal of Medical Hypotheses

**Sheikhhassani, R.**, & Dravinski, M. (2014). Scattering of a plane harmonic SH wave by multiple layered inclusions. Wave Motion, 51(3), 517-532.

Dravinski, M., & **Sheikhhassani, R.** (2013). Scattering of a plane harmonic SH wave by a rough multilayered inclusion of arbitrary shape. Wave Motion, 50(4), 836-851.

CONFERENCE  
PRESENTATIONS

**Sheikhhassani, R.**, Farahani, M., Deilami Azodi, H. (2009). Theoretical analysis of tube hydro-forming of round tubes into Square sections. Paper presented at the AMPT.

REVIEWER

- Waves in Random and Complex Media
- International Journal of Science, Technology and Society
- Mathematical Reviews, American Mathematical Society
- Clinical, Cosmetic and Investigational Dentistry

ORGANIZATIONS

- Member of American Society of Mechanical Engineers
- Member of Society of Manufacturing Engineers
- Member of Society for Industrial and Applied Mathematics

COMPUTER SKILLS

- CAD: Solid works, CATIA, AutoCAD.
- FEM: ANSYS, ABAQUS, MARC, COMSOL.
- Numerical Analysis: Matlab, Maple, and Mathematica.
- Programming: JAVA.
- Statistical Analysis: SPSS.